



AN ISO 9001 : 2008 COMPANY & NABL ACCREDITED LABORATORY AS PER ISO/IEC 17025:2005

4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : CP-2018-11-21-47 Date: 26-07-2018
 Customer : Assistant Executive Engineer, Shettyhalli Sub Division, BBMP,
 Address : Shettyhalli Sub Division, BBMP, Bangalore.
 Project Name : Improvements to road and drain at Kempegowda garden and Sapthagiri layout in ward no.12 Shettyhalli Sub division.
 Agency : Technical Manager (West), KRIDL, Project Implementation Unit, No.280, 59th Cross, 17th C Main Road, 3rd Y Block, Rajajinagar, Bangalore-560010
 Customer's Reference : BBMP/EE/DD/WO/153/2017-18
 Source of Sample : Sample supplied by Agency
 Sample Condition : Satisfactory
 Date of Receipt : 23-07-2018
 Sample ID No : 2018-11-21-47 /01
 Sample Type : Birla Super 53grade
 Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,
 IS 4031 (Part 1,2 3,4,5, 6,11):1988
 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4
 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5
 IS 4031 Part 3, Determination of Soundness, Clause 5, Clause 6
 IS 4031 Part 4. Determination of Consistency of Standard Cement Paste, Clause 5
 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5
 IS 4031 Part 11, DETERMINATION OF DENSITY , Clause 6
 Date of test : 24-07-2018
 Environmental Conditions during test : Temperature: 26°C
 Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.87	—
2	Fineness by Air permeability method (m ² /kg, Min)	298.7	225m ² /kg, Min
3	Density (gm/cc)	3.15	—
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	165 minutes	Not less than 30 minutes
6	Final Setting time	265 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

Any correction in the report will make this report invalid

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Samples will be disposed after 90 days from the date of issue of test certificate

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R KARTHIK RECHAN

Authorized Signatory
Quality Manager



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****End of Report****

ಯುಕೆ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
 ಕೃಷ್ಣ ಉಪವಿಭಾಗ, ದಾಸರಹಳ್ಳಿ ಪಾಲಯ
 ತಾ. ಪಿಂಗುಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
 ೦.ಎಂ. ರಸ್ತೆ, ಬೆಂಗಳೂರು

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4, 7TH MAIN MALLESWARAM, BANGALORE - 3

Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2018-11-21-47 Date: 26-07-2018

Customer : Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.

Address : Shettyhalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to road and drain at Kempegowda garden and Sathagiri layout in ward no.12 Shettyhalli Sub division.

Agency : Technical Manager (West), KRIDL, Project Implementation Unit, No.280, 59th Cross, 17th C Main Road, 3rd Y Block, Rajajinagar, Bangalore-560010

Customer's Reference : BBMP/EE/DD/WO/153/2017-18

Source of Sample : Sample supplied by Agency

Sample condition : Satisfactory

Date of Receipt : 23-07-2018

Sample ID No : 2018-11-21-47 /02(a)

Sample Type : 40mm down size coarse aggregate

Reference to BIS codes : IS: 383:2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1,3,4) RA2011
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption
IS 2386 Part 4: Mechanical Properties

Date of test : 23-07-2018

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	245	245	1.6	98.4	90-100
3	20 mm	7875	8120	54.1	45.9	30-70
4	10 mm	3899	12019	80.1	19.9	10-35
5	4.75 mm	2588	14607	97.4	2.6	0-5
6	Pan	393	15000	100.0	0	---

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TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2018-11-21-47 Date: 25-07-2018

Customer : Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.

Address : Shettyhalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to road and drain at Kempegowda garden and Sapthagiri layout in ward no.12 Shettyhalli Sub division.

Agency : Technical Manager (West), KRIDL, Project Implementation Unit, No.280, 59th Cross, 17th C Main Road, 3rd Y Block, Rajajinagar, Bangalore-560010

Customer's Reference : BBMP/EE/DD/WO/153/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 23-07-2018

Sample ID No : 2018-11-21-47 /03

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption

Date of test : 23-07-2018

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	22	22	2.2	97.8	90-100	90-100	90-100	95-100
3	2.36 mm	185	207	20.7	79.3	60-95	75-100	85-100	95-100
4	1.18 mm	205	412	41.2	58.8	30-70	55-90	75-100	90-100
5	600 micron	218	630	63.0	37.0	15-34	35-59	60-79	80-100
6	300 micron	142	772	77.2	22.8	5-20	8-30	12-40	15-50
7	150 micron	173	945	94.5	5.5	0-10	0-10	0-10	0-15
8	Pan	55	1000	100.0	0.0	---	---	---	---

Result : The tested Sample Conforms to Grading Zone II

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2018-11-21-47 Date: 08/08/2018

Customer : Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.

Address : Shettyhalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to road and drain at Kempegowda garden and Sapthagiri layout in ward no.12 Shettyhalli Sub division.

Agency : Technical Manager (West), KRIDL, Project Implementation Unit, No.280, 59th Cross, 17th C Main Road, 3rd Y Block, Rajajinagar, Bangalore-560010

Customer's Reference : BBMP/EE/DD/VO/153/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 03-08-2018

Sample ID No : 2018-11-21-47 /01

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 08/08/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm ²)	Average Compressive Strength (N/mm ²)
1	Drain Concrete	M20	01/08/2018	08/08/2018	150.12 X 150.34 X 150.43	22569	8.312	390.4	17.3	17.2
2	Drain Concrete	M20	01/08/2018	08/08/2018	150.42 X 150.54 X 150.55	22644	8.331	403.1	17.8	
3	Drain Concrete	M20	01/08/2018	08/08/2018	150.42 X 150.54 X 150.35	22644	8.345	371.4	16.4	

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Format No: CP/TF/01

TEST REPORT OF PRECAST COVER SLAB

Lab ID : CP-2018-11-21-47 Date: 28-07-2018

Customer : Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.

Address : Shettyhalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to road and drain at Kempegowda garden and Sapthagiri layout in ward no.12 Shettyhalli Sub division.

Agency : Technical Manager (West), KRIDL, Project Implementation Unit, No.280, 59th Cross, 17th C Main Road, 3rd Y Block, Rajajinagar, Bangalore-560010

Customer's Reference : BBMP/EE/DD/WO/153/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 23-07-2018

Sample ID No : 2018-11-21-47 /06

Sample Type /Size : Precast Cover Slab 10CM Thick

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete

Date of test : 24/07/2018

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm ²)	(N/mm ²)	(N/mm ²)
1	Cover Slab-1	75.08	100.02	1.396	4426	83.7	18.9	17.6	22.0
2	Cover Slab-2	75.11	100.06	1.358	4430	81.9	18.5	17.2	21.5
3	Cover Slab-3	75.07	100.04	1.398	4425	83.5	18.9	17.5	21.9

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ಶೆಟ್ಟಿಹಳ್ಳಿ ಉಪವಿಭಾಗ, ದಾಸರಹಳ್ಳಿ ಪುರಂ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
ಎಸ್.ಎಂ. ರಸ್ತೆ, ರವೀಂದ್ರನಗರ, ಬೆಂಗಳೂರು.

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